

PEDAGOGICAL CONDITIONS FOR IMPROVING THE TEACHING METHODOLOGY OF BUILDING MATERIALS TECHNOLOGY IN DIGITAL CONDITIONS

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Annotatsiya: *Ushbu ilmiy maqola ushbu sharoitda samarali o'qitishga yordam beradigan asosiy omillarni o'rganishga va ushbu sohadagi ta'lim tajribasini oshirish strategiyasini taklif qilishga qaratilgan. Raqamli sharoitlar tomonidan taqdim etilgan noyob qiyinchiliklar va imkoniyatlarni hisobga olgan holda, o'qituvchilar talabalarning qurilish sohasida rivojlanish uchun zarur bilim va ko'nikmalar bilan ta'minlanishini ta'minlashlari mumkin.*

Kalit so'zlar: *innovatsiya, raqamlashtirish, metodika, texnologiya, ko'nikma.*

Abstract: *This research paper aims to explore the key factors that contribute to effective teaching in this setting and to propose strategies for improving the educational experience in this area. By considering the unique challenges and opportunities presented by digital environments, educators can ensure that students are equipped with the knowledge and skills necessary to thrive in the construction industry.*

Key words: *innovation, digitization, methodology, technology, skills.*

Аннотация: *Целью данной исследовательской работы является изучение ключевых факторов, способствующих эффективному обучению в этой области, и предложение стратегий по улучшению образовательного опыта в этой области. Принимая во внимание уникальные проблемы и возможности, предоставляемые цифровой средой, преподаватели могут гарантировать, что учащиеся получат знания и навыки, необходимые для преуспевания в строительной отрасли.*

Ключевые слова: *инновации, цифровизация, методология, технология, навыки.*

In today's rapidly changing digital world, it is very important for educational institutions to adapt the teaching methodology to effectively educate students in the field of building materials technology. As technology advances, the construction industry is becoming increasingly dependent on digital tools and processes, however, many traditional training methods have failed to keep pace with these developments, as employers are demanding. The skills students are taught and distinguish between those leading. Therefore, it is necessary to discover pedagogical conditions that improve the methodology of teaching construction materials technology in a digital environment.

Methodological pedagogical conditions play an important role in improving the teaching methodology, in particular, in the field of construction materials technology within digital conditions. With the development of technologies, it became necessary for educational institutions to adapt to the digital age and use the available tools effectively. In this regard, it is necessary to create appropriate pedagogical conditions to create a comfortable learning environment for students. First, the integration of modern technologies such as interactive whiteboards, virtual reality, simulations and multimedia resources can significantly enhance the learning experience. These tools not only make the subject more interesting and

interactive, but also make it easier for students to understand complex concepts. Second, using cooperative learning approaches in which students actively participate in group discussions, projects, and problem solving can facilitate active learning. Such collaborative activities can develop the critical thinking, teamwork, and communication skills necessary for the holistic development of students. In addition, clear organization of learning objectives, along with regular assessment and feedback mechanisms, is essential for monitoring student progress and identifying areas for improvement. By adapting pedagogical settings to a digital context, teachers can effectively teach building materials technology and thus provide students with a comprehensive understanding of the subject.

The digital conditions of the modern era have had a great impact on the teaching of construction materials technology. As the use of technology becomes more and more common in society, teachers must adapt their teaching methods accordingly. With the rapid development of digital tools and resources, students now have access to a wide range of information and learning opportunities that were not available before. These digital resources provide a more interactive and engaging learning experience that allows students to visualize concepts and simulate real-life scenarios.

Pedagogical strategies for improving the methodology of teaching in digital conditions One of the pedagogical strategies for improving the methodology of teaching in digital conditions is the use of multimedia resources. Incorporating multimedia resources such as interactive videos, animations, and virtual reality experiences can enhance students' understanding and engagement with the subject matter. These resources allow for a more dynamic and interactive learning environment where students are able to visualize and navigate concepts that may be difficult to grasp through traditional teaching methods. In addition, multimedia resources can respond to different learning styles and preferences, thus reaching the diverse students in the classroom. By diversifying instructional materials and incorporating multimedia resources, educators can create a more effective and stimulating learning experience for students in the digital environment.

Difficulties and limitations in the implementation of pedagogical conditions for the technology of teaching building materials in a digital environment There are several difficulties and limitations in the implementation of pedagogical conditions for the implementation of the technology of teaching building materials in a digital environment. One of the main problems is the need for adequate technological infrastructure and equipment in educational institutions. Effective use of digital tools for building materials technology education is difficult without reliable internet connections, computers, and appropriate software. In addition, the digital divide among students, where some may be better at using technology than others, creates inequality and prevents the realization of uniform pedagogical conditions. Another limitation is the need for special training and experience among teachers to effectively use digital tools and technologies. Not all teachers may have the necessary skills to navigate and integrate digital platforms into their teaching methodologies. In addition, the costs associated with implementing digital pedagogies can be high, especially given the need for ongoing technical support and software updates. Despite these challenges and limitations, the benefits of incorporating digital technologies into potential building materials technology education are worth overcoming these obstacles. Funds should be allocated to support

pedagogical conditions to ensure equitable access to technology, provide training opportunities for teachers, and implement technology for teaching building materials in a digital environment.

SUMMARY

In short, the pedagogical conditions for improving the methodology of building materials technology education in the digital environment require multifaceted and constant attention and adaptation. The integration of digital tools and resources has the potential to increase student engagement, develop critical thinking skills, and create a platform for collaborative learning. at the same time, it is essential that teachers have the necessary skills and knowledge to effectively use these digital tools and create a meaningful learning environment. In addition, accessibility and inclusion must be prioritized so that all students can benefit from these gains.

REFERENCES:

- 1.Arthur P. Hershaft. National Educational Technology Plan. Nova Science Publishers, 1/1/2011
- 2.Educational Research and Innovation Center. In-service education and teacher training. A condition for educational change, organization of economic cooperation and development, 1/1/1982